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10/809,494	03/26/2004	Takehiko Senba	Q80450	7858
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SUITE 800 WASHINGTO	N. DC 20037		ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/809,494	SENBA, TAKEHIKO			
Office Action Summary	Examiner	Art Unit	,		
	Gevell Selby	2622			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o					
Application Papers					
9) The specification is objected to by the Examine					
		hy the Examiner			
10)⊠ The drawing(s) filed on <u>26 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents		-(d) or (f).			
1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior					
application from the International Bureau		a in this realistic stage			
* See the attached detailed Office action for a list		d. <u> </u>			
	<i>,</i> .				
			(A		
Attachment(s)			``		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka et al., US 6,693, 673, in view of Kidono et al., US 6,618,090.

In regard to claim 1, Tanaka et al., US 6,693, 673, discloses a camera (see figure 1) incorporating therein an aperture member which is variable in an aperture caliber including a completely closed condition and changes over to an aperture caliber after an alteration with a predetermined response speed in accordance with an alteration instruction of the aperture caliber, wherein a subject light incident through an aperture of the aperture member is received by an imaging device to create image data, the camera comprising:

a sensor (see fig. 1, element 14) that monitors the aperture caliber of the aperture member (see column 5, lines 30-34);

an aperture control section (see fig. 1, element 13) that controls the aperture caliber of the aperture member (see column 5, lines 30-34);

a photometry section (see fig. 1, element 12) that measures brightness of field in accordance with light quantity of received light by the imaging device (see column 5, lines 25-30), and

an exposure control section (see figure 1, element 21) that controls an exposure in accordance with the brightness of field measured by the photometry section (see column 5, lines 25-39),

wherein the photometry section measures the brightness of field when the aperture member is of a predetermined first aperture caliber which is a relatively large aperture caliber (see column 8, lines 14-18 and 39-48 and column 9, lines 57-64), and

wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor (see column 5, lines 29-36).

The Tanaka reference does not disclose measuring the brightness of field in halfway through change over of the aperture member from the first aperture caliber to a predetermined second aperture caliber which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber, and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section

and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber.

Kidono et al., US 6,618,090, disclose a camera with an exposure operation/control section (14) that discloses measuring the brightness of field in halfway through change over of the aperture member (see figure 4, element T1) from the first aperture caliber (see figure 4, element 2T1) to a predetermined second aperture caliber (see figure 4, element 2T2) which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber (see figure 4 and column 8, lines 25-50: two exposures are taken to measure the brightness, one at 2T1 and the other at T1, which is halfway between 2T1 and 2T2; the aperture value is changed when the exposure time is changed), and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber (see figure 4 and column 8, lines 25-50: the changing of the exposure time is equivalent to the changing of the aperture caliber and when the brightness is any value over the target value, the exposure time of aperture caliber is changed).

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It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Tanaka et al., US 6,693, 673, in view of Kidono et al., US 6,618,090, to have measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to a predetermined second aperture caliber which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber, and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber, in order to allow image-recording with almost no smear and with an appropriate brightness.

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In regard to claim 2, Tanaka et al., US 6,693, 673, in view of Kidono et al., US 6,618,090, discloses a camera according to claim 1. The Kidono reference discloses wherein the camera further comprises a photography timing control section (see fig. 1, element 211) that performs photography in a state that the aperture member is in the first aperture caliber and in a state that the aperture member is steadied to the second aperture caliber in accordance with whether a photometry of the brightness of field, wherein the aperture member is in the first aperture caliber, is possible or impossible, and wherein the exposure control section controls a shutter speed (see column 5, lines 56-67).

In regard to claim 3, Tanaka et al., US 6,693, 673, in view of Kidono et al., US 6,618,090, discloses a camera according to claim 1. The Kidono reference discloses wherein the camera further comprises a photography timing control section (see fig. 1, element 211) that performs photography in a state that the aperture member is in the first aperture caliber and performs photography regardless of a state that the aperture member is steadied to the second aperture caliber in accordance with whether a photometry of the brightness of field, wherein the aperture member is in the first aperture caliber, is possible or impossible (see column 5, lines 56-67), and wherein the exposure control section controls a shutter speed (it is implied the exposure control section of the Kidono reference controls a shutter speed in order to vary the exposure time), and in a case where a measurement of the brightness of field is impossible when the aperture member is in the first aperture caliber, the exposure control section controls the shutter speed in accordance with the brightness of field measured by the photometry section in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber, an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, and an aperture caliber in a photographic timing, of the aperture member, which is monitored by the sensor (see column 10, lines 40-53).

In regard to claim 4, Tanaka et al., US 6,693, 673, discloses a camera (see figure 1) incorporating therein an aperture member which is variable in an aperture caliber including a completely closed condition and changes over to an aperture caliber after an alteration with a predetermined response speed in accordance with an alteration

instruction of the aperture caliber, wherein a subject light incident through an aperture of the aperture member is received by an imaging device to create image data, the camera comprising:

a sensor (see fig. 1, element 14) that monitors the aperture caliber of the aperture member (see column 5, lines 30-34);

an aperture control section (see fig. 1, element 13) that controls the aperture caliber of the aperture member (see column 5, lines 30-34);

a photometry section (see fig. 1, element 12) that measures brightness of field in accordance with light quantity of received light by the imaging device (see column 5, lines 25-30), and

an exposure control section (see figure 1, element 21) that controls an exposure in accordance with the brightness of field measured by the photometry section (see column 5, lines 25-39),

wherein the photometry section measures the brightness of field when the aperture member is of a predetermined first aperture caliber which is a relatively large aperture caliber (see column 8, lines 14-18 and 39-48 and column 9, lines 57-64), and

wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor (see column 5, lines 29-36);

wherein the camera further comprises a photography timing control section (see fig. 1, element 211) that performs photography in a state that the aperture member is in the first aperture caliber and performs photography regardless of a state that the aperture member is steadied to the second aperture caliber in accordance with whether a photometry of the brightness of field, wherein the aperture member is in the first aperture caliber, is possible or impossible (see column 5, lines 56-67), and

wherein the exposure control section controls a shutter speed (it is implied the exposure control section of the Kidono reference controls a shutter speed in order to vary the exposure time) and an exposure is corrected on the created image data (see column 9, lines 30-35).

The Tanaka reference does not disclose measuring the brightness of field in halfway through change over of the aperture member from the first aperture caliber to a predetermined second aperture caliber which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber, and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber, and in a case where a measurement of the brightness of field is impossible when the aperture member is in the first aperture caliber,

the exposure control section controls the shutter speed regarding as the brightness of field measured by the photometry section in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber being measured when the aperture member is in the second aperture caliber.

Kidono et al., US 6,618,090, disclose a camera with an exposure operation/control section (14) that discloses measuring the brightness of field in halfway through change over of the aperture member (see figure 4, element T1) from the first aperture caliber (see figure 4, element 2T1) to a predetermined second aperture caliber (see figure 4, element 2T2) which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber (see figure 4 and column 8, lines 25-50: two exposures are taken to measure the brightness, one at 2T1 and the other at T1, which is halfway between 2T1 and 2T2; the aperture value is changed when the exposure time is changed), and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber (see figure 4 and column 8, lines 25-50: the changing of the exposure time is equivalent to the changing of the aperture caliber and when the brightness is any value over the target value, the exposure time of aperture caliber is changed), and in a case where a measurement of the brightness of field is impossible when the aperture member is in the

first aperture caliber, the exposure control section (see figure 1, element 14) controls the shutter speed (it is inherent the shutter speed it controlled in order to vary the exposure time) regarding as the brightness of field measured by the photometry section in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber being measured when the aperture member is in the second aperture caliber (see figure 4 and column 8, lines 60-64: the exposure measurement taken at Tn is used to determine the exposure time or shutter speed for the image capture).

It would have been obvious to one of ordinary skill in the art at the time of invention to have been motivated to modify Tanaka et al., US 6,693, 673, in view of Kidono et al., US 6,618,090, to have measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to a predetermined second aperture caliber which is relatively smaller than the first aperture caliber when a photometry of the brightness of field is impossible because of an exposure over with the first aperture caliber, and wherein the exposure control section controls the exposure in accordance with the brightness of field measured by the photometry section and an aperture caliber in a photometric timing of the brightness of field, of the aperture member, which is monitored by the sensor, when the photometry section measures the brightness of field in halfway through change over of the aperture member from the first aperture caliber to the second aperture caliber, and in a case where a measurement of the brightness of field is impossible when the aperture member is in the first aperture caliber, the exposure control section controls the shutter speed regarding as the brightness of field measured by the photometry section in halfway through change over of the aperture

member from the first aperture caliber to the second aperture caliber being measured when the aperture member is in the second aperture caliber, in order to allow image-recording with almost no smear and with an appropriate brightness.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 5,517,243, discloses a camera with a diaphragm-shutter and controller to control the opening and closing timing of the diaphragm-shutter..

US 5,656,769, discloses a light quantity control device that varies the amount of opening of an aperture.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gevell Selby whose telephone number is 571-272-7369. The examiner can normally be reached on 8:00 A.M. - 5:30 PM (every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lin Ye can be reached on 571-272-7372. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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gvs

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